



Tokyo Tech

Enjoy your discussion, at first !



Tokyo Tech

Students Workshop 2023 Overview

at 3rd Energy & Informatics International Forum

December 11 – 15, 2023

Bali, Indonesia

Tokyo Tech Academy of Energy and Informatics

Discussion Topic for Students Workshop 2023



[Back Ground]

We all are doing research to make our world better, especially in InoSyEnergy, in the domain of energy and informatics.

In nature, we tend to think well-organized-environment as a framework to implement our technologies.

However, what is the reality of our world ?

What is missing element of our research activities to realize the sustainable energy society where all peoples on the planet can enjoy the energy, the outcome from our research and development efforts ?

To expand our capability to have the great insight for the sustainable energy society, we set “Energy Poverty” as this year’s discussion topic for students workshop.

Discussion Topic for Students Workshop 2023

[Exercise]

Discussion Topic “Energy Poverty”

1) (within 5 pages)

Search materials (papers, reports, documentations) addressing Energy Poverty, read them carefully, and explain “your answers”* to the following questions:

- What is Energy Poverty ?
- What is the observed situation about energy poverty ?
- What are the problems caused by energy poverty ?
- What are the root causes of the energy poverty ?
- Why is it difficult to measure the energy poverty ?
- Why is it difficult to solve energy poverty ?
- Is energy poverty technical issue or political issue ?
- What are missing elements in your research and development activities to mitigate energy poverty.

2) (within 5 pages)

Propose the idea to mitigate energy poverty and solve some problems caused by energy poverty you mentioned above, by leveraging “Multi-disciplinary Energy Science”, and/or “Big Data Science/informatics”, and/or “Social Design”. Especially, consider about applying Big Data Science/Informatics.

- ✓ * “your answers” mean “not output from Generative AI”.
- ✓ Please take a look at the attached papers for your first step. Although, these are just examples.
- ✓ Discussion may include how we can realize carbon neutrality and solving energy poverty.

Instructions for Students Workshop 2023

- ✓ 3 students in 1 group
- ✓ There are "USA Time Groups" and "EU Time Groups"
- ✓ **During 10:30-12:30 on December 15th** (Bali local time), each group will have **10 minutes presentation** followed by **10 minutes Q&A**. **All group members** need to attend the presentation.
- ✓ Presentation slides should be **no more than 10 pages** in the form of Power Point or Google Docs.
- ✓ For presentation, please use **your own PC connecting to zoom** room for student workshop.
- ✓ The time slots named "Student Workshop" in the schedule table is dedicated to the student workshop discussion of groups in Bali. **Remote groups can discuss at their convenient time slots.**
- ✓ You can discuss remotely at anytime from **November 27th**, **under the condition that your own ordinary research work is not disturbed**, by using assigned oVice account. Please discuss, at first, **how your group will use the time** until the final presentation **for fruitful output**.
- ✓ Presentation slides should be submitted to "intl.forum2023@infosyenergy.titech.ac.jp" by email, after the forum. They will be shared by the closed members of Tokyo Tech Academy of Energy and Informatics and InfoSyEnergy Research and Education Consortium.
- ✓ Please send any questions to **the channel "INQUIRY" of Slack "International Forum'23_Student Workshop"**, you will get answers later. We will invite you this slack by the orientation on November 27.

Tools for Student Workshop

- oVice

- A service that provides a virtual space for discussion.
- You are an avatar in the virtual space. You can move around the virtual space by moving your avatar.
- You can talk with your group members, sharing a screen.



Tools for Student Workshop

- Slack
 - An instant messaging service.
 - You can share text messages and files with your group members.
- E-mail
 - Please use e-mail when it is difficult to communicate with your group members via oVice and slack.
- Microsoft Power Point and Google Slide
 - Presentation tools.
 - Please use whichever you like.